

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market size is expected to reach \$ 3314 million by 2032, rising at a market growth of 6.2% CAGR during the forecast period (2026-2032).

Pharmaceutical grade HCO (hydrogenated castor oil) is a high-purity excipient derived from the catalytic hydrogenation of refined castor oil, primarily consisting of glycerol tris(12-hydroxystearate). It is produced under stringent GMP standards and is characterized by its superior chemical stability and hydrophobic properties, making it an essential lubricant, stiffening agent, or matrix-former for controlled-release systems. This report primarily focuses on pharmaceutical-grade HCO and its derivatives, such as Polyoxyl Hydrogenated Castor Oils (e.g., PEG-40 Hydrogenated Castor Oil), which are widely utilized as potent solubilizers and emulsifiers in liquid formulations. Compared to industrial grades, pharmaceutical-grade HCO and its derivatives must adhere to rigorous pharmacopoeia standards (such as USP, EP, or ChP), ensuring strict control over acid values, impurity profiles, and biocompatibility for patient safety. In 2025, global pharmaceutical grade HCO sales volume was 925,000 tons, with an average unit price of US\$2,445 per ton and a gross profit margin ranging from 25% to 45%. The global pharmaceutical-grade HCO industry chain is based on upstream castor seed cultivation and castor oil production. Raw materials are mainly concentrated in regions rich in castor resources such as India, China, and Brazil. After hydrogenation, refining, and pharmaceutical-grade quality control, intermediate products are formed. In the midstream, fine chemical and pharmaceutical excipient companies with GMP systems complete deep processing, focusing on controlling impurities, peroxide value, and batch stability. Downstream, it is mainly used in the pharmaceutical field as a nonionic surfactant, solubilizer, and emulsifier, widely used in injections, oral liquids, soft

capsules, and topical preparations. It also extends to medical nutritional preparations and some high-end medical device-related formulations. The overall demand is highly correlated with the global trend of generic drugs, biological agents, and premium formulations.

This report studies the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pharmaceutical Grade HCO (Hydrogenated Castor Oil) and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Pharmaceutical Grade HCO (Hydrogenated Castor Oil) that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) total production and demand, 2021-2032, (Tons)

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) total production value, 2021-2032, (USD Million)

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Pharmaceutical Grade HCO (Hydrogenated Castor Oil) domestic production, consumption, key domestic manufacturers and share

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BASF, Croda,

Kao, Nikkol Group, Itoh OilChem, Nihon Emulsion, Corel Pharma Chem, Shanxi Dideu Medichem, Jayant Agro-Organics, Inner Mongolia Weiyu Biotech, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) Market, Segmentation by Type:

Base Type

Chemically Modified Type

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) Market, Segmentation by Formulations:

Injectable

Oral Preparations

Other

Global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) Market, Segmentation by Application:

Solubilizer

Emulsifier

Excipient

Others

Companies Profiled:

BASF

Croda

Kao

Nikkol Group

Itoh OilChem

Nihon Emulsion

Corel Pharma Chem

Shanxi Dideu Medichem

Jayant Agro-Organics

Inner Mongolia Weiyu Biotech

Shanghai Better Chemical

Key Questions Answered:

1. How big is the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market?
2. What is the demand of the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market?
3. What is the year over year growth of the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market?
4. What is the production and production value of the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market?
5. Who are the key producers in the global Pharmaceutical Grade HCO (Hydrogenated Castor Oil) market?
6. What are the growth factors driving the market demand?

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